

## Title (en)

A METHOD FOR RECOVERY OF Nd<sub>2</sub>Fe<sub>14</sub>B GRAINS FROM BULK SINTERED Nd-Fe-B MAGNETS AND/OR MAGNET SCRAPS BY ELECTROCHEMICAL ETCHING

## Title (de)

VERFAHREN ZUR RÜCKGEWINNUNG VON Nd<sub>2</sub>Fe<sub>14</sub>B-KÖRNERN AUS MASSEGESINTERTEN Nd-Fe-B-MAGNETEN UND/ODER MAGNETABFÄLLEN DURCH ELEKTROCHEMISCHES ÄTZEN

## Title (fr)

PROCÉDÉ DE RÉCUPÉRATION DE GRAINS Nd<sub>2</sub>Fe<sub>14</sub>B À PARTIR D'AIMANTS Nd-Fe-B FRITTÉS EN VRAC ET/OU DE DÉCHETS D'AIMANTS PAR GRAVURE ÉLECTROCHIMIQUE

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## Application

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## Abstract (en)

The invention relates to a method for recovery of Nd<sub>2</sub>Fe<sub>14</sub>B grains from bulk sintered Nd-Fe-B magnets and/or magnet scraps. In this method the Nd-Fe-B magnets (1) and/or magnet scraps are anodically oxidized using a non-aqueous liquid electrolyte (5), said anodic oxidation releasing the Nd<sub>2</sub>Fe<sub>14</sub>B grains (6) in said Nd-Fe-B magnets (1) and/or magnet scraps. The released Nd<sub>2</sub>Fe<sub>14</sub>B grains (6) are collected during and/or after said anodic oxidation. The proposed method allows a more environmental friendly and cost-effective way for recycling EOL Nd-Fe-B magnets / Nd-Fe-B magnet scraps.

## IPC 8 full level

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## Citation (applicant)

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